Name Of work : - Improvements to Roads and drains at Amruthanagara, Verma Layout, Bhuvaneshwari Nagara and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item No	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	413.20	415.20		1.00	2.00	1.20	1.30	1.25	0.25	0.63	Approach
							Total Qty in Cum			129.75	
Measurements recorded on 16 /01/18											
24	KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.158, I.No.20.18 of PW,P&IWTD SR 2016-										
	2nd cross										
	From High Tension Wire Road										
	0.00	15.00		1.00	15.00	1.20	1.30	1.25	0.25	4.69	
	15.00	30.00		1.00	15.00	1.20	1.30	1.25	0.25	4.69	
	30.00	45.00		1.00	15.00	1.20	1.30	1.25	0.25	4.69	
	45.00	60.00		1.00	15.00	1.20	1.30	1.25	0.25	4.69	
	60.00	75.00		1.00	15.00	1.20	1.30	1.25	0.25	4.69	
	75.00	90.00		1.00	15.00	1.20	1.30	1.25	0.25	4.69	
	90.00	105.00		1.00	15.00	1.20	1.30	1.25	0.25	4.69	
	105.00	120.00		1.00	15.00	1.20	1.30	1.25	0.25	4.69	
	120.00	135.00		1.00	15.00	1.20	1.30	1.25	0.25	4.69	
	135.00	150.00		1.00	15.00	1.20	1.30	1.25	0.25	4.69	
	150.00	156.20		1.00	6.20	1.20	1.30	1.25	0.25	1.94	
	156.20	171.20		1.00	15.00	1.20	1.30	1.25	0.25	4.69	cross road 1
	171.20	186.20		1.00	15.00	1.20	1.30	1.25	0.25	4.69	
	186.20	200.20		1.00	14.00	1.20	1.30	1.25	0.25	4.38	cross road 2
	200.20	215.20		1.00	15.00	1.20	1.30	1.25	0.25	4.69	
	215.20	230.20		1.00	15.00	1.20	1.30	1.25	0.25	4.69	
	230.20	245.20		1.00	15.00	1.20	1.30	1.25	0.25	4.69	
	245.20	260.20		1.00	15.00	1.20	1.30	1.25	0.25	4.69	
	260.20	275.20		1.00	15.00	1.20	1.30	1.25	0.25	4.69	
	275.20	290.20		1.00	15.00	1.20	1.30	1.25	0.25	4.69	
	290.20	305.20		1.00	15.00	1.20	1.30	1.25	0.25	4.69	
	305.20	320.20		1.00	15.00	1.20	1.30	1.25	0.25	4.69	
	320.20	335.20		1.00	15.00	1.20	1.30	1.25	0.25	4.69	
	335.20	350.20		1.00	15.00	1.20	1.30	1.25	0.25	4.69	

Consultant

Assistant Engineer

AE(W2)

Assistant Executive Engineer

Kodigehalli Sub Division

Bruhat Bangalore Mahanagara Palike

Bangalore - 560 092

Name Of work : - Improvements to Roads and drains at Amruthanagara, Verma Layout, Bhuvaneshwari Nagara and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item No	Description		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Chainage										
	350.20	365.20		1.00	15.00	1.20	1.30	1.25	0.25	4.69	
	365.20	380.20		1.00	15.00	1.20	1.30	1.25	0.25	4.69	
	380.20	395.20		1.00	15.00	1.20	1.30	1.25	0.25	4.69	
	395.20	413.20		1.00	18.00	1.20	1.30	1.25	0.25	5.63	
	413.20	415.20		1.00	2.00	1.20	1.30	1.25	0.25	0.63	Approach
	For Scarified Portion										
	0.00	15.00		1.00	15.00	5.30	4.50	4.90	0.25	18.38	
	15.00	30.00		1.00	15.00	4.60	4.10	4.35	0.25	16.31	
	30.00	45.00		1.00	15.00	4.20	4.50	4.35	0.25	16.31	
	45.00	60.00		1.00	15.00	4.60	4.40	4.50	0.25	16.88	
	60.00	75.00		1.00	15.00	4.50	4.20	4.35	0.25	16.31	
	75.00	90.00		1.00	15.00	4.30	4.50	4.40	0.25	16.50	
	90.00	101.00		1.00	11.00	4.60	3.60	4.10	0.25	11.28	
	Cross Road 1 in 2nd Cross										
	0.00	15.00		1.00	15.00	3.70	4.10	3.90	0.25	14.63	
	15.00	31.00		1.00	16.00	4.10	4.10	4.10	0.25	16.40	
	Cross Road 2 in 2nd Cross										
	0.00	15.00		1.00	15.00	4.70	4.70	4.70	0.25	17.63	
	15.00	30.00		1.00	15.00	4.70	4.70	4.70	0.25	17.63	
	30.00	36.00		1.00	6.00	4.70	3.70	4.20	0.25	6.30	
	2nd Cross Road, Muniswamappa Layout										
	0.00	15.00		1.00	15.00	6.20	5.80	6.00	0.25	22.50	
	15.00	30.00		1.00	15.00	5.80	5.50	5.65	0.25	21.19	
	30.00	45.00		1.00	15.00	5.50	5.30	5.40	0.25	20.25	
	45.00	60.00		1.00	15.00	5.30	5.40	5.35	0.25	20.06	
	60.00	75.00		1.00	15.00	5.40	5.00	5.20	0.25	19.50	
	75.00	90.00		1.00	15.00	5.00	5.20	5.10	0.25	19.13	
	90.00	105.00		1.00	15.00	5.20	5.10	5.15	0.25	19.31	
	105.00	120.00		1.00	15.00	5.10	5.30	5.20	0.25	19.50	
	120.00	135.00		1.00	15.00	5.30	5.70	5.50	0.25	20.63	
	135.00	150.00		1.00	15.00	5.70	5.60	5.65	0.25	21.19	
	150.00	157.80		1.00	7.80	5.60	5.90	5.75	0.25	11.21	

Consultant

Assistant Engineer

AE(JI)

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Name Of work : - Improvements to Roads and drains at Amrut ... ma Layout, Bhuvaneshwari Nagara and Surrounding Areas in ward No 07 - Byatarayanapu ... Sub Division.

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	1st Cross Road,Muniswamappa layout										
	0.00	15.00		1.00	15.00	5.30	5.80	5.55	0.25	20.81	
	15.00	30.00		1.00	15.00	5.80	5.90	5.85	0.25	21.94	
	30.00	45.00		1.00	15.00	5.90	5.90	5.90	0.25	22.13	
	45.00	60.00		1.00	15.00	5.90	5.70	5.80	0.25	21.75	
	60.00	70.00		1.00	10.00	5.70	5.80	5.75	0.25	14.38	
	1st A Cross Road,Muniswamappa Layout										
	0.00	2.00		1.00	2.00	6.30	6.50	6.40	0.25	3.20	Approach
	2.00	17.00		1.00	15.00	6.20	5.90	6.05	0.25	22.69	
	17.00	32.00		1.00	15.00	5.90	5.80	5.85	0.25	21.94	
	32.00	47.00		1.00	15.00	5.80	5.70	5.75	0.25	21.56	
	47.00	67.00		1.00	20.00	5.70	6.56	6.13	0.25	30.65	
							Total Qty in Cum			**729.79**	

16/1/18

AE(NZ) 16/01/18

Measurements recorded on 18/01/18

25	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification										
	Above WMM										
	2nd cross										
	From High Tension Wire Road										
	0.00	15.00		1.00	15.00	1.20	1.30	1.25		18.75	
	15.00	30.00		1.00	15.00	1.20	1.30	1.25		18.75	
	30.00	45.00		1.00	15.00	1.20	1.30	1.25		18.75	
	45.00	60.00		1.00	15.00	1.20	1.30	1.25		18.75	
	60.00	75.00		1.00	15.00	1.20	1.30	1.25		18.75	
	75.00	90.00		1.00	15.00	1.20	1.30	1.25		18.75	
	90.00	105.00		1.00	15.00	1.20	1.30	1.25		18.75	
	105.00	120.00		1.00	15.00	1.20	1.30	1.25		18.75	
	120.00	135.00		1.00	15.00	1.20	1.30	1.25		18.75	
	135.00	150.00		1.00	15.00	1.20	1.30	1.25		18.75	

Consultant

Assistant Engineer

AE(NZ)

Assistant Executive Engineer

Assistant Executive Engineer
(Konanakunte) Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Name Of work : - Improvements to Roads and drains at Amruthanagara, Verma Layout, Bhuvaneshwari Nagara and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item No	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	150.00	156.20		1.00	6.20	1.20	1.30	1.25		7.75	
	156.20	171.20		1.00	15.00	1.20	1.30	1.25		18.75	cross road 1
	171.20	186.20		1.00	15.00	1.20	1.30	1.25		18.75	
	186.20	200.20		1.00	14.00	1.20	1.30	1.25		17.50	cross road 2
	200.20	215.20		1.00	15.00	1.20	1.30	1.25		18.75	
	215.20	230.20		1.00	15.00	1.20	1.30	1.25		18.75	
	230.20	245.20		1.00	15.00	1.20	1.30	1.25		18.75	
	245.20	260.20		1.00	15.00	1.20	1.30	1.25		18.75	
	260.20	275.20		1.00	15.00	1.20	1.30	1.25		18.75	
	275.20	290.20		1.00	15.00	1.20	1.30	1.25		18.75	
	290.20	305.20		1.00	15.00	1.20	1.30	1.25		18.75	
	305.20	320.20		1.00	15.00	1.20	1.30	1.25		18.75	
	320.20	335.20		1.00	15.00	1.20	1.30	1.25		18.75	
	335.20	350.20		1.00	15.00	1.20	1.30	1.25		18.75	
	350.20	365.20		1.00	15.00	1.20	1.30	1.25		18.75	
	365.20	380.20		1.00	15.00	1.20	1.30	1.25		18.75	
	380.20	395.20		1.00	15.00	1.20	1.30	1.25		18.75	
	395.20	413.20		1.00	18.00	1.20	1.30	1.25		22.50	
	413.20	415.20		1.00	2.00	1.20	1.30	1.25		2.50	Approach
	For Scarified										
	0.00	15.00		1.00	15.00	5.30	4.50	4.90		73.50	
	15.00	30.00		1.00	15.00	4.60	4.10	4.35		65.25	
	30.00	45.00		1.00	15.00	4.20	4.50	4.35		65.25	
	45.00	60.00		1.00	15.00	4.60	4.40	4.50		67.50	
	60.00	75.00		1.00	15.00	4.50	4.20	4.35		65.25	
	75.00	90.00		1.00	15.00	4.30	4.50	4.40		66.00	
	90.00	101.00		1.00	11.00	4.60	3.60	4.10		45.10	
	Cross Road 1 in 2nd Cross										
	0.00	15.00		1.00	15.00	3.70	4.10	3.90		58.50	
	15.00	31.00		1.00	16.00	4.10	4.10	4.10		65.60	
	Cross Road 2 in 2nd Cross									0.00	
	0.00	15.00		1.00	15.00	4.70	4.70	4.70		70.50	
	15.00	30.00		1.00	15.00	4.70	4.70	4.70		70.50	
	30.00	36.00		1.00	6.00	4.70	3.70	4.20		25.20	

Consultant

Assistant Engineer

DE(IV)

Assistant Executive Engineer
Kodigehalli Sub Division
Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Name Of work : - Improvements to Roads and drains at Amruthanagara, Verma Layout, Bhuvaneshwari Nagara and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	2nd Cross Road, Muniswamappa Layout										
	0.00	15.00		1.00	15.00	6.20	5.80	6.00		90.00	
	15.00	30.00		1.00	15.00	5.80	5.50	5.65		84.75	
	30.00	45.00		1.00	15.00	5.50	5.30	5.40		81.00	
	45.00	60.00		1.00	15.00	5.30	5.40	5.35		80.25	
	60.00	75.00		1.00	15.00	5.40	5.00	5.20		78.00	
	75.00	90.00		1.00	15.00	5.00	5.20	5.10		76.50	
	90.00	105.00		1.00	15.00	5.20	5.10	5.15		77.25	
	105.00	120.00		1.00	15.00	5.10	5.30	5.20		78.00	
	120.00	135.00		1.00	15.00	5.30	5.70	5.50		82.50	
	135.00	150.00		1.00	15.00	5.70	5.60	5.65		84.75	
	150.00	157.80		1.00	7.80	5.60	5.90	5.75		44.85	
	1st Cross Road,Muniswamappa layout										
	0.00	15.00		1.00	15.00	5.30	5.80	5.55		83.25	
	15.00	30.00		1.00	15.00	5.80	5.90	5.85		87.75	
	30.00	45.00		1.00	15.00	5.90	5.90	5.90		88.50	
	45.00	60.00		1.00	15.00	5.90	5.70	5.80		87.00	
	60.00	70.00		1.00	10.00	5.70	5.80	5.75		57.50	
	1st A Cross Road,Muniswamappa Layout										
	0.00	2.00		1.00	2.00	6.30	6.50	6.40		12.80	Approach
	2.00	17.00		1.00	15.00	6.20	5.90	6.05		90.75	
	17.00	32.00		1.00	15.00	5.90	5.80	5.85		87.75	
	32.00	47.00		1.00	15.00	5.80	5.70	5.75		86.25	
	47.00	67.00		1.00	20.00	5.70	6.56	6.13		122.60	
							Total Qty in Sqm			**2919.15**	

Measurements recorded on 19/01/18

Consultant

Assistant Engineer

AE(M)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Name Of work : - Improvements to Roads and drains at Amruthanagara, Verma Layout, Bhuvaneshwari Nagara and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
16	Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work										
	2nd cross										
	From High Tension Wire Road									0.00	
	101.00	120.00		1.00	19.00	3.70	3.10	3.40		64.60	
	120.00	135.00		1.00	15.00	3.20	4.00	3.60		54.00	
	135.00	150.00		1.00	15.00	4.10	3.80	3.95		59.25	
	150.00	156.20		1.00	6.20	3.90	4.30	4.10		25.42	
	156.20	171.20		1.00	15.00	4.40	3.90	4.15		62.25	cross road 1
	171.20	186.20		1.00	15.00	4.00	4.20	4.10		61.50	
	186.20	200.20		1.00	14.00	4.30	4.00	4.15		58.10	cross road 2
	200.20	215.20		1.00	15.00	4.10	4.20	4.15		62.25	
	215.20	230.20		1.00	15.00	4.30	4.00	4.15		62.25	
	230.20	245.20		1.00	15.00	4.10	4.40	4.25		63.75	
	245.20	260.20		1.00	15.00	4.50	4.40	4.45		66.75	
	260.20	275.20		1.00	15.00	4.50	4.70	4.60		69.00	
	275.20	290.20		1.00	15.00	4.80	4.70	4.75		71.25	
	290.20	305.20		1.00	15.00	4.80	4.40	4.60		69.00	
	305.20	320.20		1.00	15.00	4.50	5.00	4.75		71.25	
	320.20	335.20		1.00	15.00	5.10	4.30	4.70		70.50	
	335.20	350.20		1.00	15.00	4.40	4.70	4.55		68.25	
	350.20	365.20		1.00	15.00	4.80	4.20	4.50		67.50	
	365.20	380.20		1.00	15.00	4.30	3.80	4.05		60.75	
	380.20	395.20		1.00	15.00	3.90	4.20	4.05		60.75	
	395.20	413.20		1.00	18.00	4.30	4.70	4.50		81.00	
	413.20	415.20		1.00	2.00	5.10	5.20	5.15		10.30	Approach
							Total Qty in Sqm			**1339.67**	

Measurements recorded on

Consultant

Assistant Engineer

AE(IT)
18/01/18

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Assistant Executive Engineer

Name Of work : - Improvements to Roads and drains at Amruthanagara, Verma Layout, Bhuvaneshwari Nagara and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
14 27	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7 of PWD R&B WTD SR of 2016-17).										
	For Laying DBM =19/01/2018										
	2nd cross										
	From High Tension Wire Road										
	0.00	15.00		1.00	15.00	6.50	5.80	6.15		92.25	
	15.00	30.00		1.00	15.00	5.80	5.40	5.60		84.00	
	30.00	45.00		1.00	15.00	5.40	5.80	5.60		84.00	
	45.00	60.00		1.00	15.00	5.80	5.70	5.75		86.25	
	60.00	75.00		1.00	15.00	5.70	5.50	5.60		84.00	
	75.00	90.00		1.00	15.00	5.50	5.80	5.65		84.75	
	90.00	105.00		1.00	15.00	5.80	4.90	5.35		80.25	
	105.00	120.00		1.00	15.00	4.90	4.40	4.65		69.75	
	120.00	135.00		1.00	15.00	4.40	5.30	4.85		72.75	
	135.00	150.00		1.00	15.00	5.30	5.10	5.20		78.00	
	150.00	156.20		1.00	6.20	5.10	5.60	5.35		33.17	
	156.20	171.20		1.00	15.00	5.60	5.20	5.40		81.00	cross road 1
	171.20	186.20		1.00	15.00	5.20	5.50	5.35		80.25	
	186.20	200.20		1.00	14.00	5.50	5.30	5.40		75.60	cross road 2
	200.20	215.20		1.00	15.00	5.30	5.50	5.40		81.00	
	215.20	230.20		1.00	15.00	5.50	5.30	5.40		81.00	
	230.20	245.20		1.00	15.00	5.30	5.70	5.50		82.50	
	245.20	260.20		1.00	15.00	5.70	5.70	5.70		85.50	
	260.20	275.20		1.00	15.00	5.70	6.00	5.85		87.75	
	275.20	290.20		1.00	15.00	6.00	6.00	6.00		90.00	
	290.20	305.20		1.00	15.00	6.00	5.70	5.85		87.75	
	305.20	320.20		1.00	15.00	5.70	6.30	6.00		90.00	
	320.20	335.20		1.00	15.00	6.30	5.60	5.95		89.25	
	335.20	350.20		1.00	15.00	5.60	6.00	5.80		87.00	
	350.20	365.20		1.00	15.00	6.00	5.50	5.75		86.25	
	365.20	380.20		1.00	15.00	5.50	5.10	5.30		79.50	

Consultant

Assistant Engineer

AE(W2)
19/01/18

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Name Of work : - Improvements to Roads and drains at Amruthanagara, Verma Layout, Bhuvaneshwari Nagara and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item No	Description		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Chainage										
	380.20	395.20		1.00	15.00	5.10	5.50	5.30		79.50	
	395.20	413.20		1.00	18.00	5.50	6.00	5.75		103.50	
	413.20	415.20		1.00	2.00	6.30	6.50	6.40		12.80	Approach
	For Laying BC=22/01/2018										
	2nd cross										
	From High Tension Wire Road										
	0.00	15.00		1.00	15.00	6.50	5.80	6.15		92.25	
	15.00	30.00		1.00	15.00	5.80	5.40	5.60		84.00	
	30.00	45.00		1.00	15.00	5.40	5.80	5.60		84.00	
	45.00	60.00		1.00	15.00	5.80	5.70	5.75		86.25	
	60.00	75.00		1.00	15.00	5.70	5.50	5.60		84.00	
	75.00	90.00		1.00	15.00	5.50	5.80	5.65		84.75	
	90.00	105.00		1.00	15.00	5.80	4.90	5.35		80.25	
	105.00	120.00		1.00	15.00	4.90	4.40	4.65		69.75	
	120.00	135.00		1.00	15.00	4.40	5.30	4.85		72.75	
	135.00	150.00		1.00	15.00	5.30	5.10	5.20		78.00	
	150.00	156.20		1.00	6.20	5.10	5.60	5.35		33.17	
	156.20	171.20		1.00	15.00	5.60	5.20	5.40		81.00	cross road 1
	171.20	186.20		1.00	15.00	5.20	5.50	5.35		80.25	
	186.20	200.20		1.00	14.00	5.50	5.30	5.40		75.60	cross road 2
	200.20	215.20		1.00	15.00	5.30	5.50	5.40		81.00	
	215.20	230.20		1.00	15.00	5.50	5.30	5.40		81.00	
	230.20	245.20		1.00	15.00	5.30	5.70	5.50		82.50	
	245.20	260.20		1.00	15.00	5.70	5.70	5.70		85.50	
	260.20	275.20		1.00	15.00	5.70	6.00	5.85		87.75	
	275.20	290.20		1.00	15.00	6.00	6.00	6.00		90.00	
	290.20	305.20		1.00	15.00	6.00	5.70	5.85		87.75	
	305.20	320.20		1.00	15.00	5.70	6.30	6.00		90.00	
	320.20	335.20		1.00	15.00	6.30	5.60	5.95		89.25	
	335.20	350.20		1.00	15.00	5.60	6.00	5.80		87.00	
	350.20	365.20		1.00	15.00	6.00	5.50	5.75		86.25	
	365.20	380.20		1.00	15.00	5.50	5.10	5.30		79.50	
	380.20	395.20		1.00	15.00	5.10	5.50	5.30		79.50	
	395.20	413.20		1.00	18.00	5.50	6.00	5.75		103.50	
	413.20	415.20		1.00	2.00	6.30	6.50	6.40		12.80	Approach

Consultant

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Name Of work : - Improvements to Roads and drains at Amruthanagara, Verma Layout, Bhuvaneshwari Nagara and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item No	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	Cross Road 1 in 2nd Cross										
	0.00	15.00		1.00	15.00	3.70	4.10	3.90		58.50	
	15.00	31.00		1.00	16.00	4.10	4.10	4.10		65.60	
	Cross Road 2 in 2nd Cross									0.00	
	0.00	15.00		1.00	15.00	4.70	4.70	4.70		70.50	
	15.00	30.00		1.00	15.00	4.70	4.70	4.70		70.50	
	30.00	36.00		1.00	6.00	4.70	3.70	4.20		25.20	
	3rd Cross Road,muniswamappa										
	Aditya Springs Apparment										
	0.00	15.00		1.00	15.00	2.00	2.00	2.00		30.00	Only Road Cut
	15.00	30.00		1.00	15.00	2.00	2.00	2.00		30.00	
	30.00	45.00		1.00	15.00	2.00	2.00	2.00		30.00	
	45.00	60.00		1.00	15.00	2.00	2.00	2.00		30.00	
	60.00	75.00		1.00	15.00	2.00	2.00	2.00		30.00	
	75.00	85.00		1.00	10.00	2.00	1.80	1.90		19.00	
	2nd Cross Road, Muniswamappa Layout										
	0.00	15.00		1.00	15.00	6.20	5.80	6.00		90.00	
	15.00	30.00		1.00	15.00	5.80	5.50	5.65		84.75	
	30.00	45.00		1.00	15.00	5.50	5.30	5.40		81.00	
	45.00	60.00		1.00	15.00	5.30	5.40	5.35		80.25	
	60.00	75.00		1.00	15.00	5.40	5.00	5.20		78.00	
	75.00	90.00		1.00	15.00	5.00	5.20	5.10		76.50	
	90.00	105.00		1.00	15.00	5.20	5.10	5.15		77.25	
	105.00	120.00		1.00	15.00	5.10	5.30	5.20		78.00	
	120.00	135.00		1.00	15.00	5.30	5.70	5.50		82.50	
	135.00	150.00		1.00	15.00	5.70	5.60	5.65		84.75	
	150.00	157.80		1.00	7.80	5.60	5.90	5.75		44.85	
	1st Cross Road,Muniswamappa layout										
	0.00	15.00		1.00	15.00	5.30	5.80	5.55		83.25	
	15.00	30.00		1.00	15.00	5.80	5.90	5.85		87.75	
	30.00	45.00		1.00	15.00	5.90	5.90	5.90		88.50	
	45.00	60.00		1.00	15.00	5.90	5.70	5.80		87.00	

Consultant

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Name Of work : - Improvements to Roads and drains at Amruthanagara, Verma L... eshwari Nagara and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item No	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	60.00	70.00		1.00	10.00	5.70	5.80	5.75		57.50	
	1st A Cross Road,Muniswamappa Layout										
	0.00	2.00		1.00	2.00	6.30	6.50	6.40		12.80	Approach
	2.00	17.00		1.00	15.00	6.20	5.90	6.05		90.75	
	17.00	32.00		1.00	15.00	5.90	5.80	5.85		87.75	
	32.00	47.00		1.00	15.00	5.80	5.70	5.75		86.25	
	47.00	67.00		1.00	20.00	5.70	6.56	6.13		122.60	
							Total Qty in Sqm			**6739.94**	

Measurements recorded on 19/01/18

30 28	KSRRB M500-16. Providing and laying dense bituminous macadam 50-75mm compacted thickness with 4.5% VG-30 Bitumen using 40/60 TPH capacity H.M.P, using crushed aggregates of grading II, premixed with VG 30 grade bituminous binder and transporting the hot mix to work site, laying with mechanical paver to the required grade level and alignment rolling with smooth wheeled, vibratory and tandem										
	2nd cross										
	From High Tension Wire Road										
	0.00	15.00		1.00	15.00	6.50	5.80	6.15	0.05	4.61	
	15.00	30.00		1.00	15.00	5.80	5.40	5.60	0.05	4.20	
	30.00	45.00		1.00	15.00	5.40	5.80	5.60	0.05	4.20	
	45.00	60.00		1.00	15.00	5.80	5.70	5.75	0.05	4.31	
	60.00	75.00		1.00	15.00	5.70	5.50	5.60	0.05	4.20	
	75.00	90.00		1.00	15.00	5.50	5.80	5.65	0.05	4.24	
	90.00	105.00		1.00	15.00	5.80	4.90	5.35	0.05	4.01	
	105.00	120.00		1.00	15.00	4.90	4.40	4.65	0.05	3.49	
	120.00	135.00		1.00	15.00	4.40	5.30	4.85	0.05	3.64	
	135.00	150.00		1.00	15.00	5.30	5.10	5.20	0.05	3.90	
	150.00	156.20		1.00	6.20	5.10	5.60	5.35	0.05	1.66	
	156.20	171.20		1.00	15.00	5.60	5.20	5.40	0.05	4.05	cross road 1
	171.20	186.20		1.00	15.00	5.20	5.50	5.35	0.05	4.01	
	186.20	200.20		1.00	14.00	5.50	5.30	5.40	0.05	3.78	cross road 2
	200.20	215.20		1.00	15.00	5.30	5.50	5.40	0.05	4.05	
	215.20	230.20		1.00	15.00	5.50	5.30	5.40	0.05	4.05	

62.40

Consultant

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Name Of work : - Improvements to Roads and drains at [redacted]ra, Verma Layout, Bhuvaneshwari Nagara and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item No	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity 62.40	Remarks
	230.20	245.20		1.00	15.00	5.30	5.70	5.50	0.05	4.13	
	245.20	260.20		1.00	15.00	5.70	5.70	5.70	0.05	4.28	
	260.20	275.20		1.00	15.00	5.70	6.00	5.85	0.05	4.39	
	275.20	290.20		1.00	15.00	6.00	6.00	6.00	0.05	4.50	
	290.20	305.20		1.00	15.00	6.00	5.70	5.85	0.05	4.39	
	305.20	320.20		1.00	15.00	5.70	6.30	6.00	0.05	4.50	
	320.20	335.20		1.00	15.00	6.30	5.60	5.95	0.05	4.46	
	335.20	350.20		1.00	15.00	5.60	6.00	5.80	0.05	4.35	
	350.20	365.20		1.00	15.00	6.00	5.50	5.75	0.05	4.31	
	365.20	380.20		1.00	15.00	5.50	5.10	5.30	0.05	3.98	
	380.20	395.20		1.00	15.00	5.10	5.50	5.30	0.05	3.98	
	395.20	413.20		1.00	18.00	5.50	6.00	5.75	0.05	5.18	
	413.20	415.20		1.00	2.00	6.30	6.50	6.40	0.05	0.64	Approach
							Total Qty in Cum			**115.47**	

Measurements recorded on 22/01/18

31 29	KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling										
	2nd cross										
	From High Tension Wire Road										
	0.00	15.00		1.00	15.00	6.50	5.80	6.15	0.04	3.69	
	15.00	30.00		1.00	15.00	5.80	5.40	5.60	0.04	3.36	
	30.00	45.00		1.00	15.00	5.40	5.80	5.60	0.04	3.36	
	45.00	60.00		1.00	15.00	5.80	5.70	5.75	0.04	3.45	
	60.00	75.00		1.00	15.00	5.70	5.50	5.60	0.04	3.36	
	75.00	90.00		1.00	15.00	5.50	5.80	5.65	0.04	3.39	
	90.00	105.00		1.00	15.00	5.80	4.90	5.35	0.04	3.21	
	105.00	120.00		1.00	15.00	4.90	4.40	4.65	0.04	2.79	
	120.00	135.00		1.00	15.00	4.40	5.30	4.85	0.04	2.91	
	135.00	150.00		1.00	15.00	5.30	5.10	5.20	0.04	3.12	
	150.00	156.20		1.00	6.20	5.10	5.60	5.35	0.04	1.33	
	156.20	171.20		1.00	15.00	5.60	5.20	5.40	0.04	3.24	cross road 1

Consultant

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Name Of work : - Improvements to Roads and drains at Amruthanagara, Verma Layout, Bhuvaneshwari Nagara and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item No	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	BF 37.21 Quantity	Remarks
	171.20	186.20		1.00	15.00	5.20	5.50	5.35	0.04	3.21	
	186.20	200.20		1.00	14.00	5.50	5.30	5.40	0.04	3.02	cross road 2
	200.20	215.20		1.00	15.00	5.30	5.50	5.40	0.04	3.24	
	215.20	230.20		1.00	15.00	5.50	5.30	5.40	0.04	3.24	
	230.20	245.20		1.00	15.00	5.30	5.70	5.50	0.04	3.30	
	245.20	260.20		1.00	15.00	5.70	5.70	5.70	0.04	3.42	
	260.20	275.20		1.00	15.00	5.70	6.00	5.85	0.04	3.51	
	275.20	290.20		1.00	15.00	6.00	6.00	6.00	0.04	3.60	
	290.20	305.20		1.00	15.00	6.00	5.70	5.85	0.04	3.51	
	305.20	320.20		1.00	15.00	5.70	6.30	6.00	0.04	3.60	
	320.20	335.20		1.00	15.00	6.30	5.60	5.95	0.04	3.57	
	335.20	350.20		1.00	15.00	5.60	6.00	5.80	0.04	3.48	
	350.20	365.20		1.00	15.00	6.00	5.50	5.75	0.04	3.45	
	365.20	380.20		1.00	15.00	5.50	5.10	5.30	0.04	3.18	
	380.20	395.20		1.00	15.00	5.10	5.50	5.30	0.04	3.18	
	395.20	413.20		1.00	18.00	5.50	6.00	5.75	0.04	4.14	
	413.20	415.20		1.00	2.00	6.30	6.50	6.40	0.04	0.51	Approach
	Cross Road 1 in 2nd Cross										
	0.00	15.00		1.00	15.00	3.70	4.10	3.90	0.04	2.34	
	15.00	31.00		1.00	16.00	4.10	4.10	4.10	0.04	2.62	
	Cross Road 2 in 2nd Cross										
	0.00	15.00		1.00	15.00	4.70	4.70	4.70	0.04	2.82	
	15.00	30.00		1.00	15.00	4.70	4.70	4.70	0.04	2.82	
	30.00	36.00		1.00	6.00	4.70	3.70	4.20	0.04	1.01	
	2nd Cross Road, Muniswamappa Layout										
	0.00	15.00		1.00	15.00	6.20	5.80	6.00	0.04	3.60	
	15.00	30.00		1.00	15.00	5.80	5.50	5.65	0.04	3.39	
	30.00	45.00		1.00	15.00	5.50	5.30	5.40	0.04	3.24	
	45.00	60.00		1.00	15.00	5.30	5.40	5.35	0.04	3.21	
	60.00	75.00		1.00	15.00	5.40	5.00	5.20	0.04	3.12	
	75.00	90.00		1.00	15.00	5.00	5.20	5.10	0.04	3.06	
	90.00	105.00		1.00	15.00	5.20	5.10	5.15	0.04	3.09	
	105.00	120.00		1.00	15.00	5.10	5.30	5.20	0.04	3.12	

C&F.C 129.81

Consultant

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Pal
Bangalore - 560 092

Name Of work : - Improvements to Roads and drains at Amruthanagara, Verma Layout, Bhuvaneshwari Nagara and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item No	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	120.00	135.00		1.00	15.00	5.30	5.70	5.50	0.04	3.30	
	135.00	150.00		1.00	15.00	5.70	5.60	5.65	0.04	3.39	
	150.00	157.80		1.00	7.80	5.60	5.90	5.75	0.04	1.79	
	1st Cross Road,Muniswamappa layout										
	0.00	15.00		1.00	15.00	5.30	5.80	5.55	0.04	3.33	
	15.00	30.00		1.00	15.00	5.80	5.90	5.85	0.04	3.51	
	30.00	45.00		1.00	15.00	5.90	5.90	5.90	0.04	3.54	
	45.00	60.00		1.00	15.00	5.90	5.70	5.80	0.04	3.48	
	60.00	70.00		1.00	10.00	5.70	5.80	5.75	0.04	2.30	
	1st A Cross Road,Muniswamappa Layout										
	0.00	2.00		1.00	2.00	6.30	6.50	6.40	0.04	0.51	Approach
	2.00	17.00		1.00	15.00	6.20	5.90	6.05	0.04	3.63	
	17.00	32.00		1.00	15.00	5.90	5.80	5.85	0.04	3.51	
	32.00	47.00		1.00	15.00	5.80	5.70	5.75	0.04	3.45	
	47.00	67.00		1.00	20.00	5.70	6.56	6.13	0.04	4.90	
							Total Qty in Cum			**170.46**	

Measurements recorded on 25/01/18

37	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.(P.No.185, I.No.24.15 of PW,P&IWTD SR 2016-17)						
	2nd crossFrom High Tension Wire Road - EDGE LINE	2	413.2	0.1		82.64	
	2nd crossFrom High Tension Wire Road - CENTER LINE	69	3	0.1		20.7	
	2nd Cross Road, Muniswamappa Layout-EDGE LINE	2	157.8	0.1		31.56	
	2nd Cross Road, Muniswamappa Layout-CENTER LINE	26	3	0.1		7.8	

Consultant

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Name Of work : - Improvements to Roads and drains at Amruthanagara, Verma Layout, Bhuvaneshwari Nagara and Surrounding Areas in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

BOQ Item No	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
	1st Cross Road, Muniswamappa Layout-EDGE LINE				2	70	0.1		14	
	1st Cross Road, Muniswamappa Layout-CENTER LINE				11	3	0.1		3.3	
	1st A Cross Road, Muniswamappa Layout-EDGE LINE				2	67	0.1		13.4	
	1st A Cross Road, Muniswamappa Layout-CENTER LINE				11	3	0.1		3.3	
						Total Qty in Sqm			176.7	
77	Add cost of Waste Plastic @ 8% of Bitumen Weight									
	Bitumen = 141 kg/cum					**Total Qty in Kgs**			**1922.84**	

TEJUS CONSULTANTS

A.E.N.D
AE(NZ)
03/02/18

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.
5/2/18

Consultant

TEJUS CONSULTANTS

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
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